

IN THE CLAIMS

Please cancel Claims 4 and 16-21.

Please substitute the following amended claims for the pending claims with the same numbers:

1. (Twice Amended) A method comprising:
registering a performance monitoring driver as a private driver with a real time operating system (RTOS) of an input/output (I/O) processor, wherein the performance monitoring driver is coupled to a performance monitoring unit (PMU);
selecting events within the I/O processor to gather data on;
sending the selected events as a message request from a host processor to the RTOS of the I/O processor; and
translating the message request into parameters based on a set of private group parameters that are accessible by the RTOS.
2. (Twice Amended) The method of claim 1, further comprising:
sending the message request as a translated request to the PMU;
returning the pieces of data requested by the translated request to the performance monitoring driver; and
sending the pieces of data to a location specified in the message request.
3. (Twice Amended) The method of claim 1, further comprising:
initiating a performance monitor application that generates a selection screen on a display coupled to the I/O processor through the host processor,
wherein selecting events within the I/O processor on which to gather data includes selecting the events on the selection screen.

B3 5. (Amended) The method of claim 1, wherein sending the selected events as a message request to the real time operating system includes sending the message request through an operating system specific module of the host processor.

B4 9. (Twice Amended) The method of claim 1, further comprising:
generating performance monitoring storage tables within memory of the I/O processor.

B5 11. (Amended) The method of claim 2, wherein sending the pieces of data to a location specified in the message request further includes sending the pieces of data at a time period specified in the message request.

B6 16. (Twice Amended) The method of claim 10 further comprising:
generating a message that causes a fan internal to the host system to turn on in response to the pieces of data returned from the performance monitoring unit.

Please add the following new claims:

B7 12 22. (New) A machine readable medium having instructions stored thereon that when executed by a processor cause a system to:

register a performance monitoring driver as a private driver with a real time operating system (RTOS) of an input/output (I/O) processor, wherein the performance monitoring driver is coupled to a performance monitoring unit (PMU);

select events within the I/O processor to gather data on;

send the selected events as a message request from a host processor to the RTOS of the I/O processor; and

translate the message request into parameters based on a set of private group parameters that are accessible by the RTOS.

13 23. (New) The machine readable medium of claim 22, further comprising instructions that when executed cause the system to:

send the message request as a translated request to the PMU;

return the pieces of data requested by the translated request to the performance monitoring driver; and

send the pieces of data to a location specified in the message request.

14 24. (New) The machine readable medium of claim 22, further comprising instructions that when executed cause the system to:

initiate a performance monitor application that generates a selection screen on a display coupled to the I/O processor through the host processor,

wherein selecting events within the I/O processor on which to gather data includes selecting the events on the selection screen.

15 25. (New) The machine readable medium of claim 22, wherein sending the selected events as a message request to the real time operating system includes sending the message request through an operating system specific module of the host processor.

16 26. (New) The machine readable medium of claim 22, wherein sending the translated request to the performance monitoring unit includes sending the translated request through the performance monitoring driver.

17 27. (New) The machine readable medium of claim 22, wherein the set of private group parameters includes at least one of (i) control parameters for hardware-based performance monitoring resources, (ii) mode-specific control parameters for a performance monitoring resource, and (iii) data parameters for at least one mode in one counter.

18 28. (New) The machine readable medium of claim 27, wherein the set of private group parameters includes at least one of the following parameters: an adjusted

sample, a control, a counter, a current mode, a current time, an ending time, an interval, a lock control, a maximum algorithm, a maximum mode, a minimum sample interval, a lock control, a maximum algorithm, a maximum mode, a minimum sample interval, a minimum sample unit, a mode control, a number counter, type of performance monitoring hardware available, a sample interval, a sigma time, and a status.

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~~29~~. (New) The machine readable medium of claim ~~22~~, further comprising instructions that when executed cause the system to:

generate performance monitoring storage tables within memory of the I/O processor.

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~~30~~. (New) The machine readable medium of claim ~~29~~, further comprising instructions that when executed cause the system to:

send the pieces of data to the performance monitoring storage tables.

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~~31~~. (New) The machine readable medium of claim ~~23~~, wherein sending the pieces of data to a location specified in the message request further includes sending the pieces of data at a time period specified in the message request.

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~~32~~. (New) The machine readable medium of claim ~~31~~, further comprising instructions that when executed cause the system to:

generate a message that causes a fan internal to the host system to turn on in response to the pieces of data returned from the performance monitoring unit.